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FIG. 2

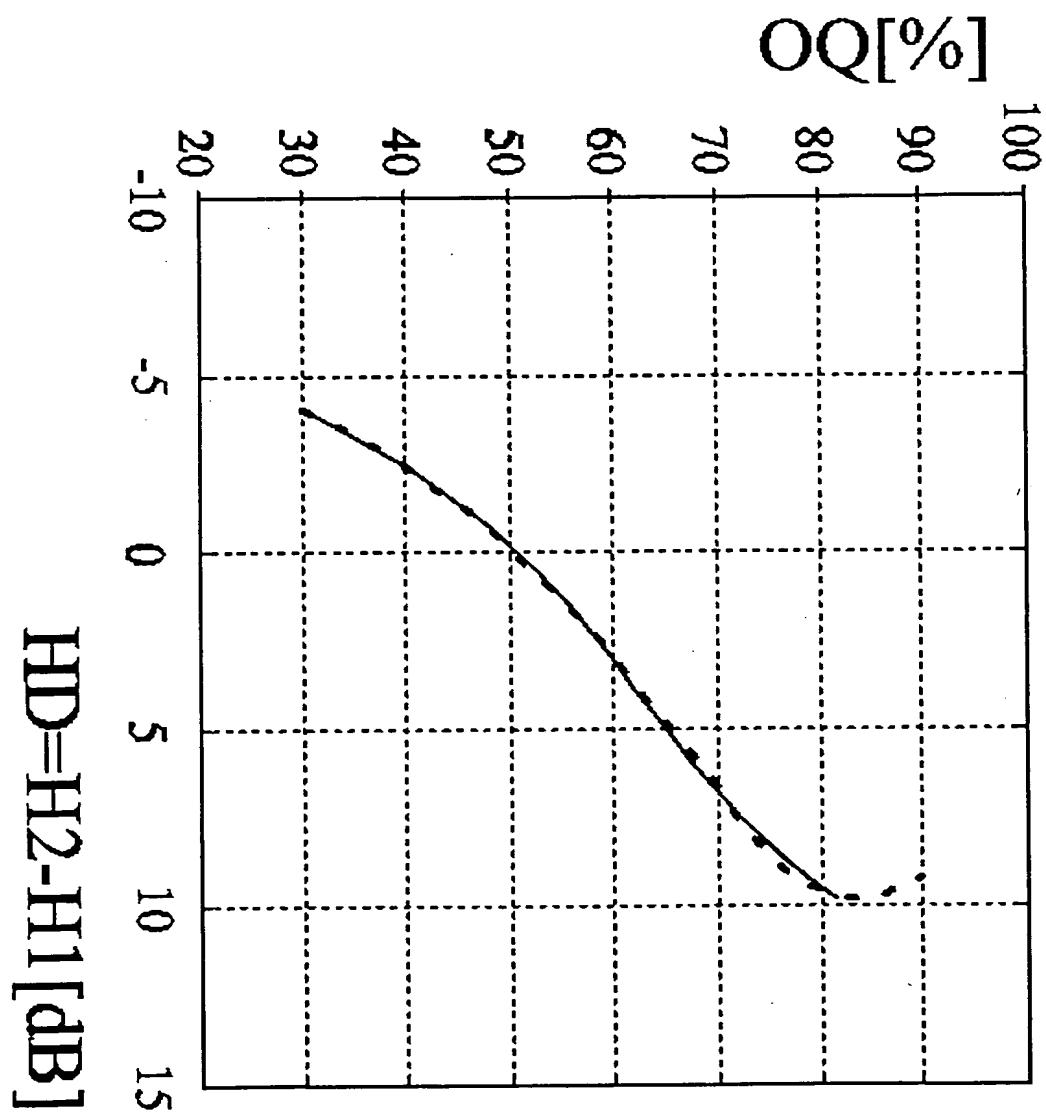
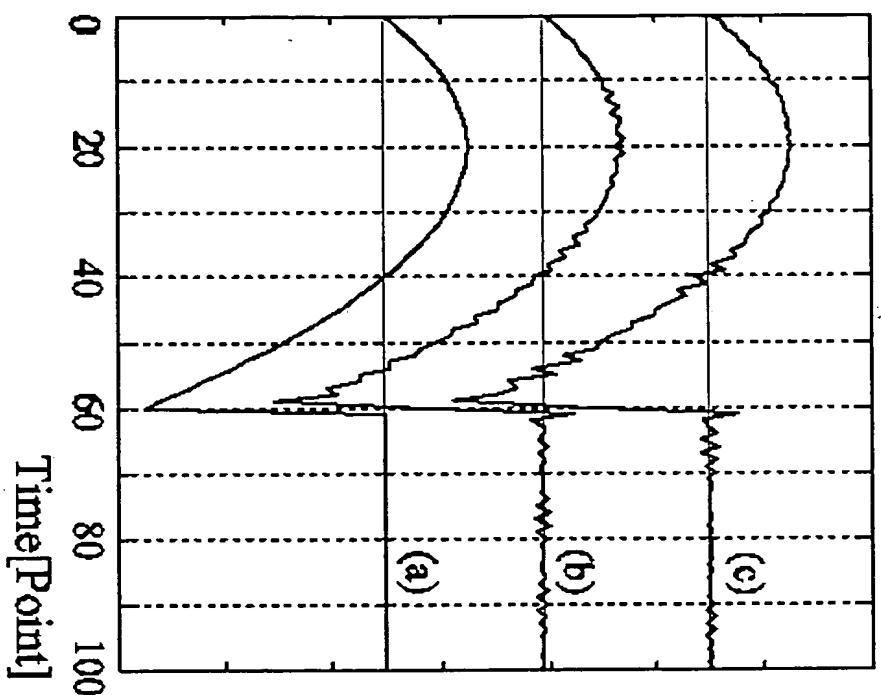


FIG. 3



$F_s = 10\text{kHz}$   
 $AV = 1$   
 $T_0 = 10\text{ms}$   
 $OQ = 60\%$

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FIG. 4B

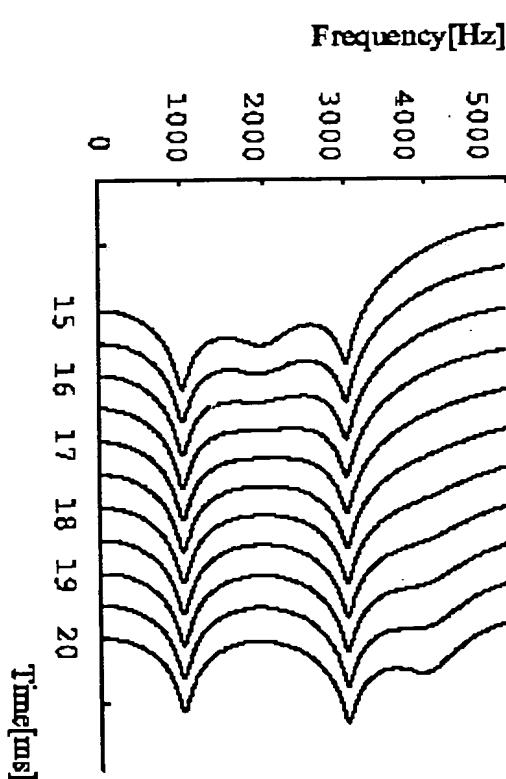
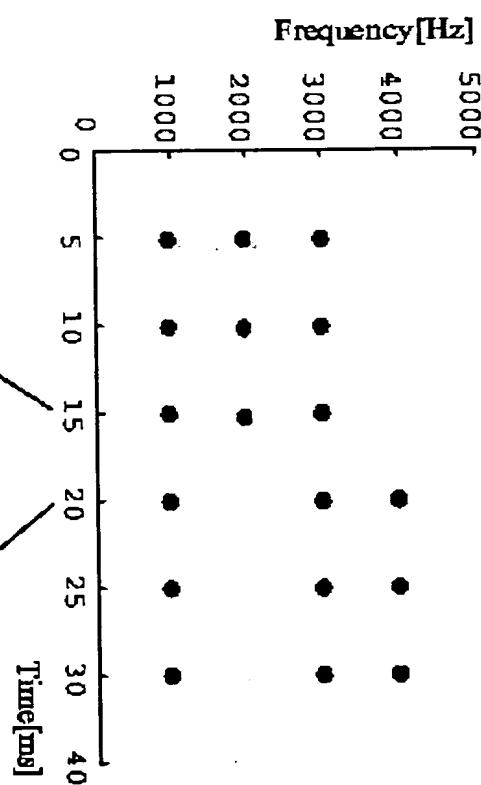


FIG. 4A



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FIG. 5

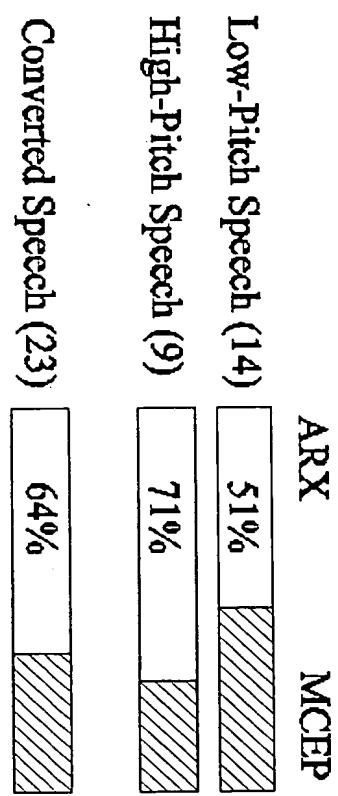


FIG. 6

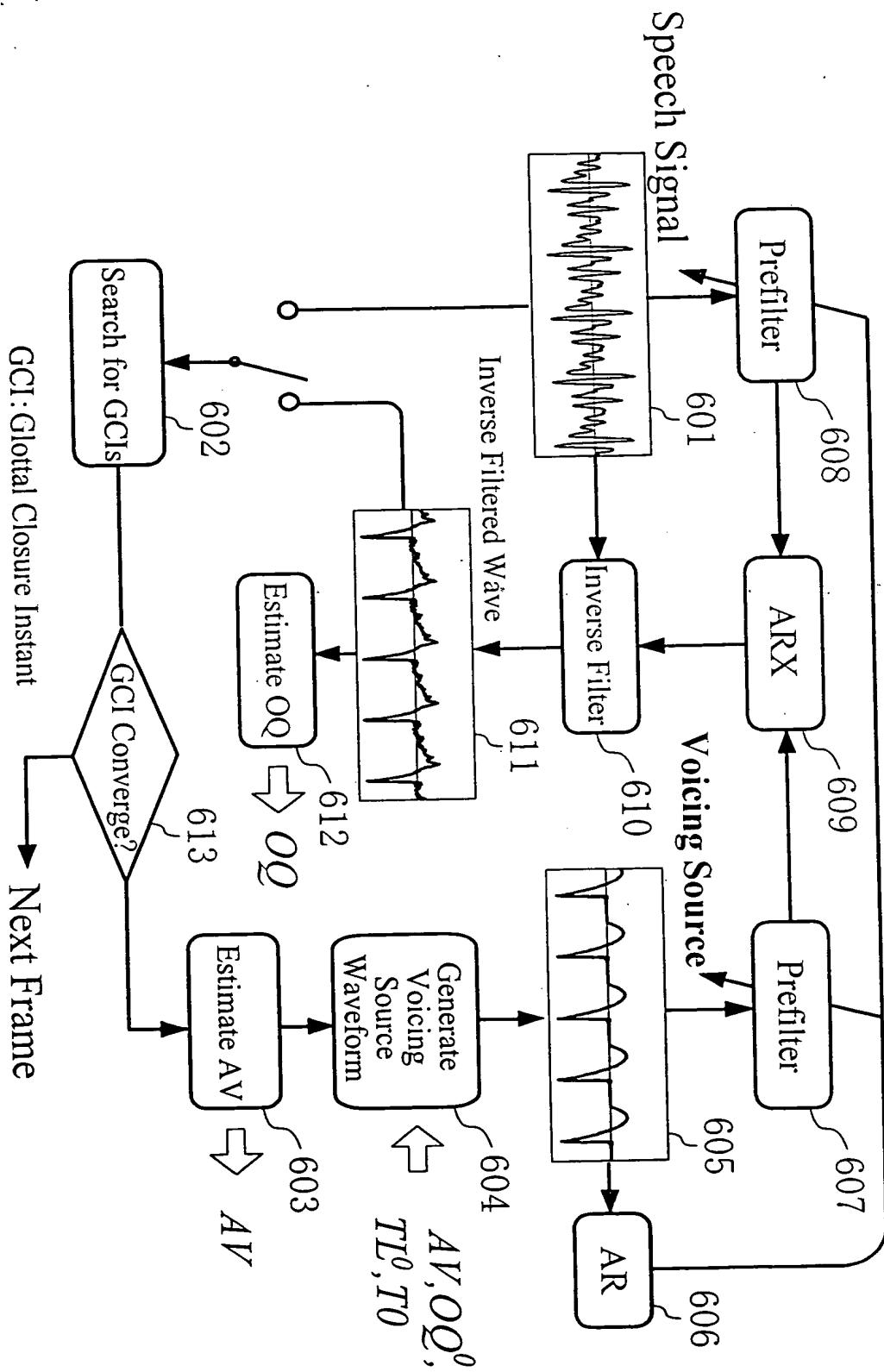
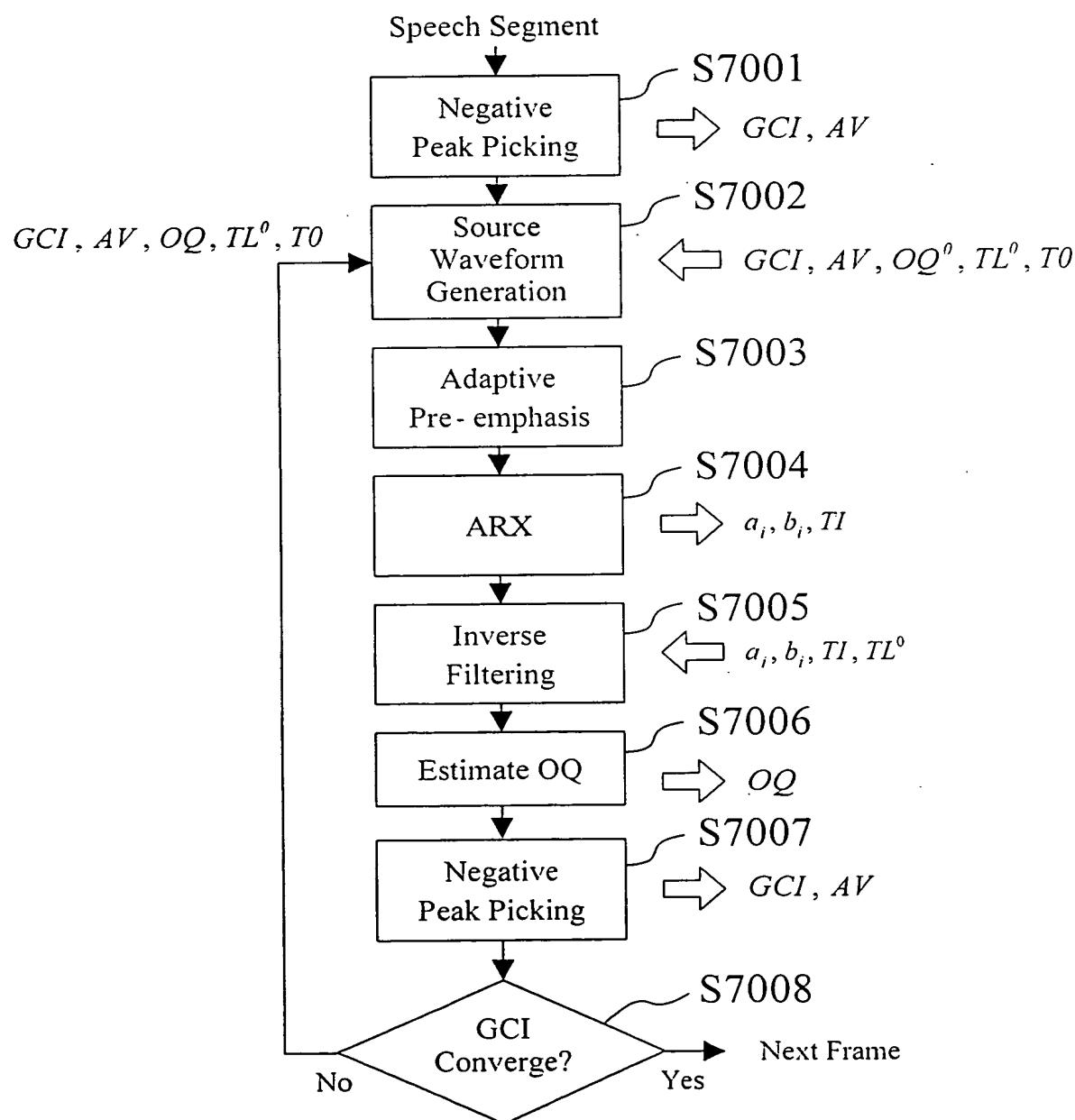
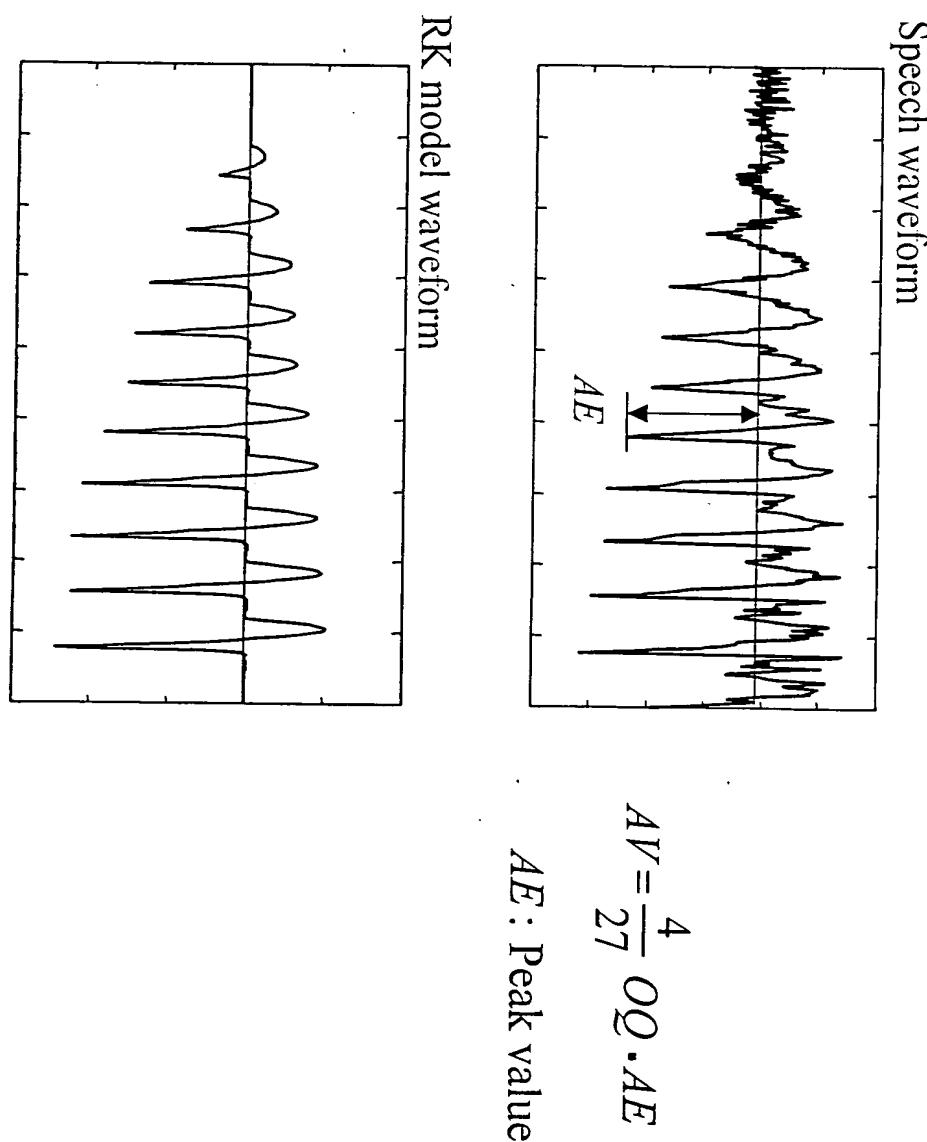


FIG. 7



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FIG. 8



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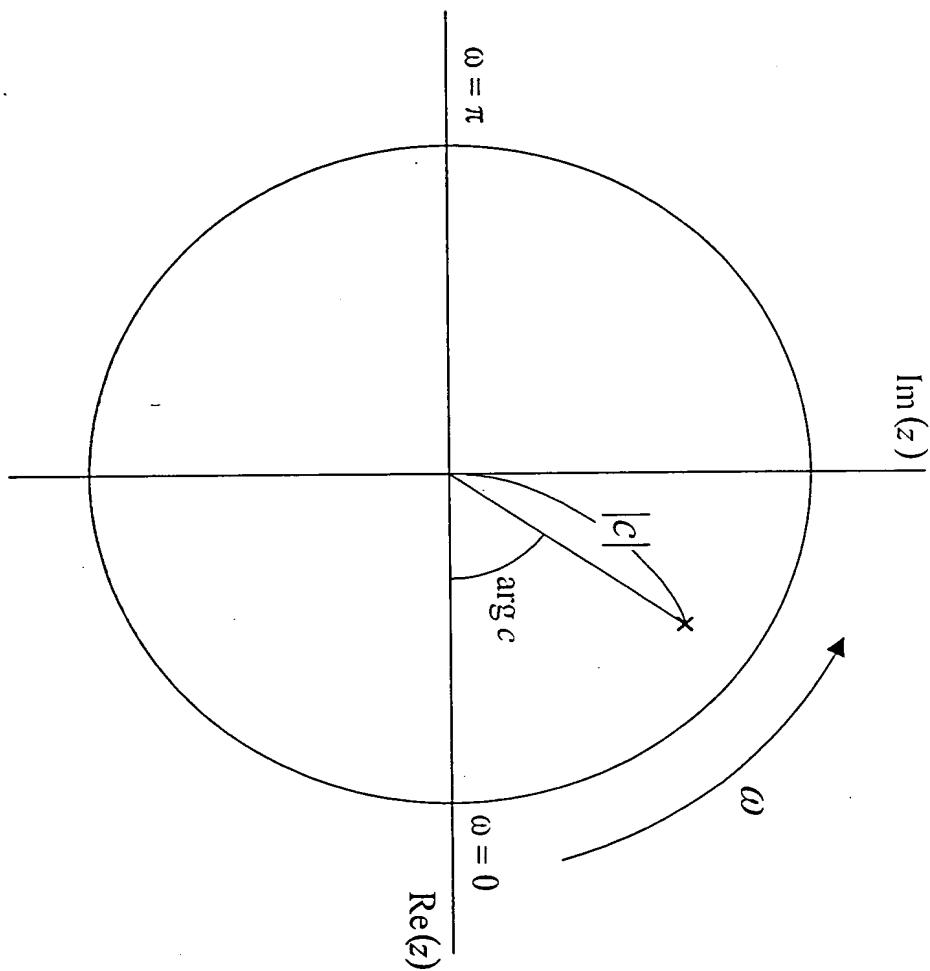
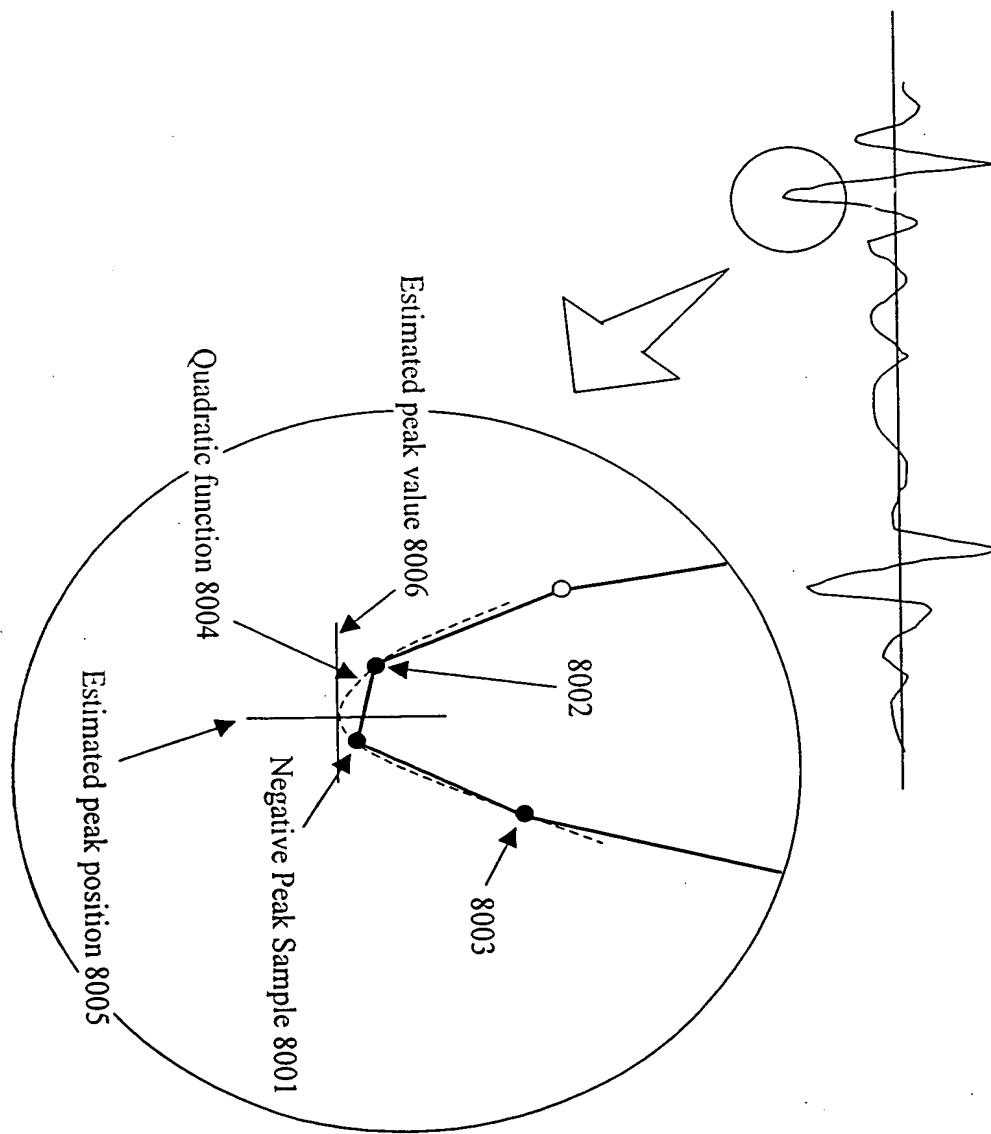


FIG. 9

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FIG. 10

Speech or inverse filtered signal waveform(601or611)



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FIG. 11A

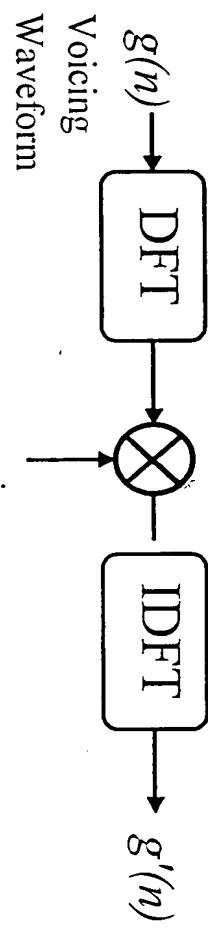
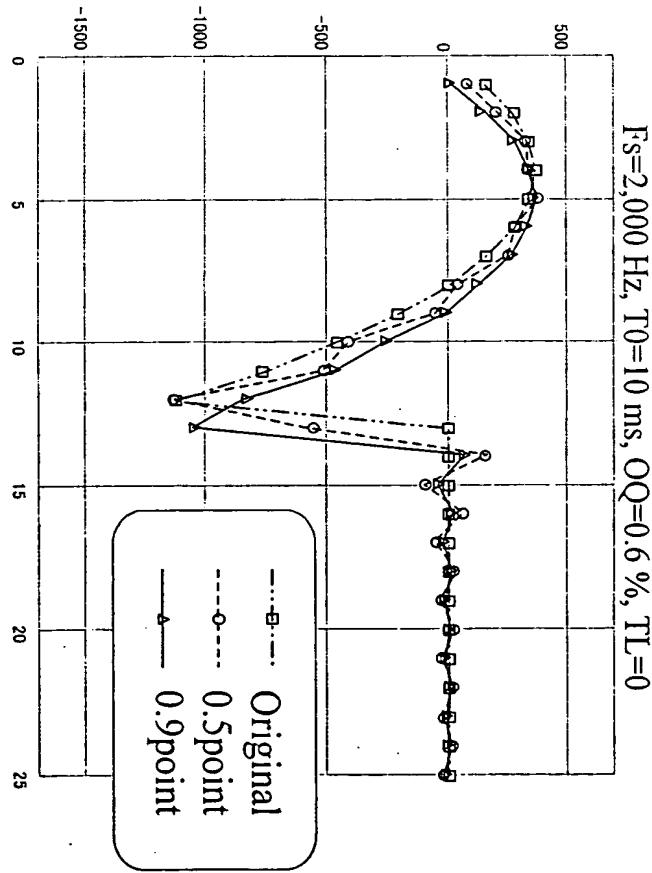
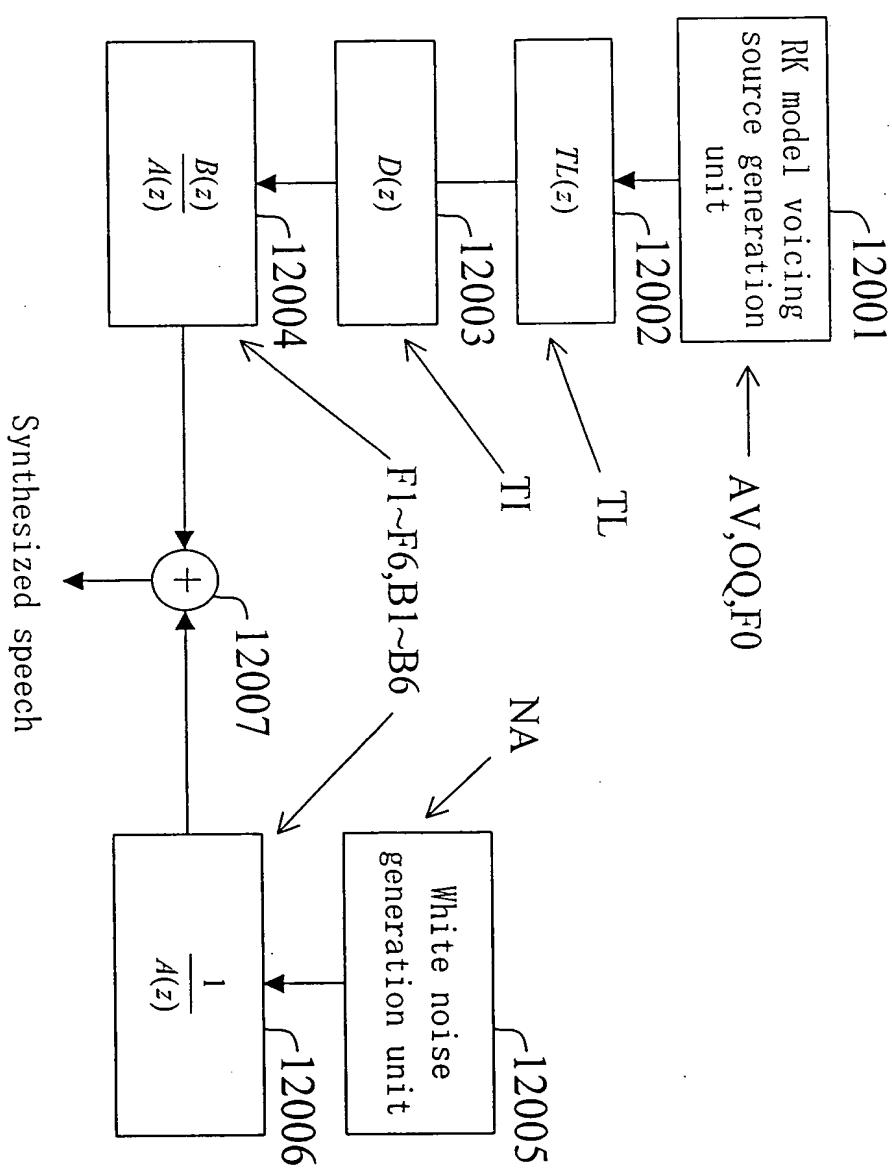


FIG. 11B



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FIG. 12



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FIG. 13

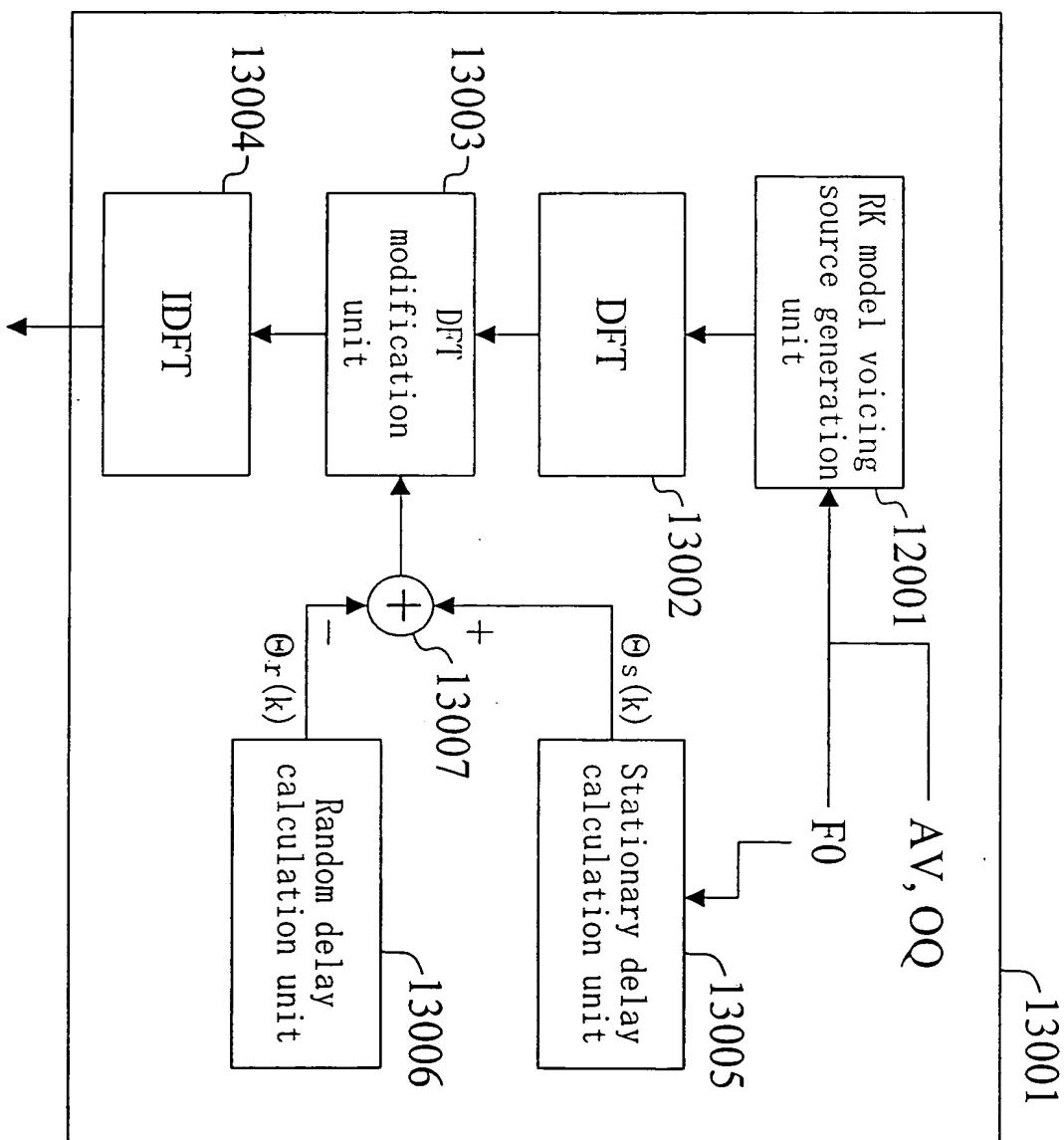
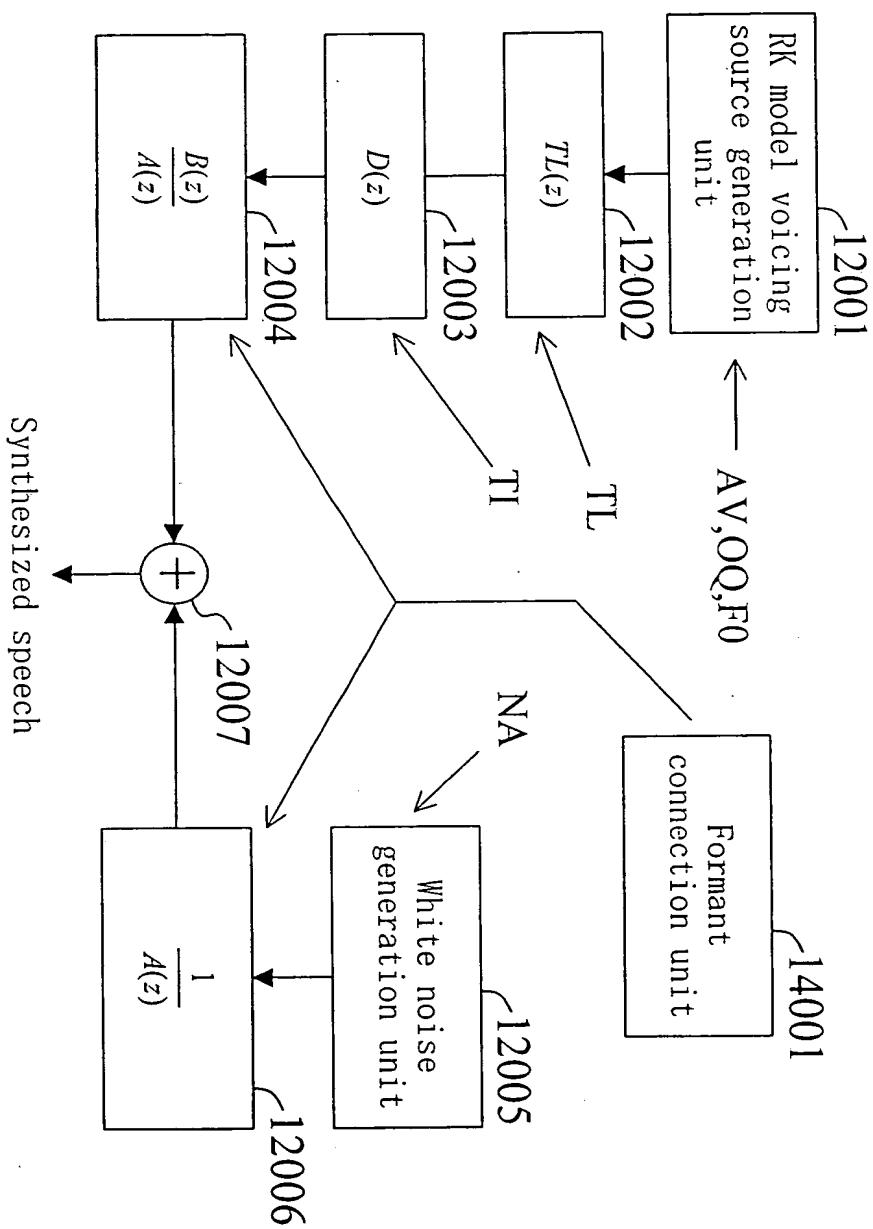


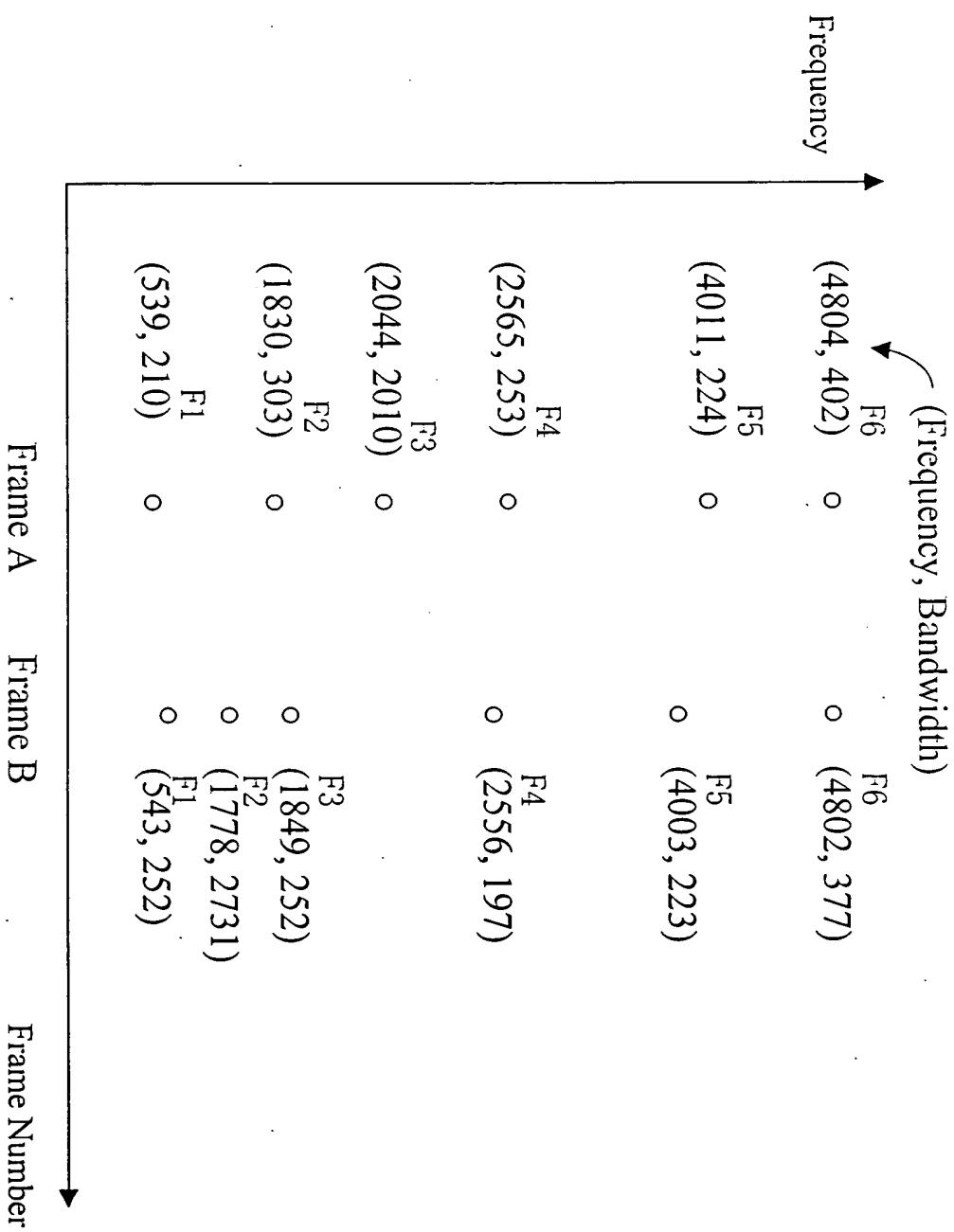
FIG. 14

F1~F6,B1~B6



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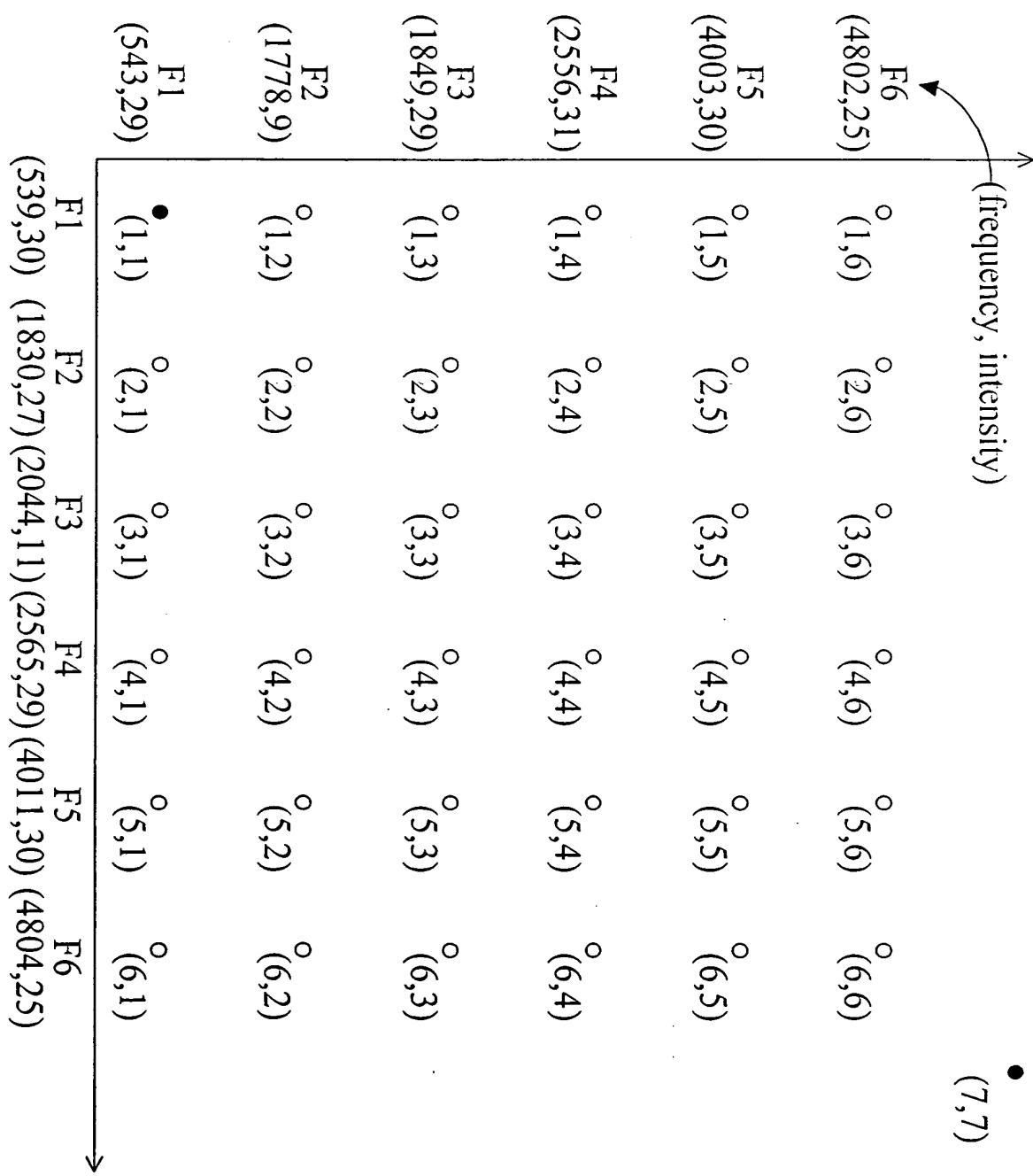
FIG. 15



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FIG. 16

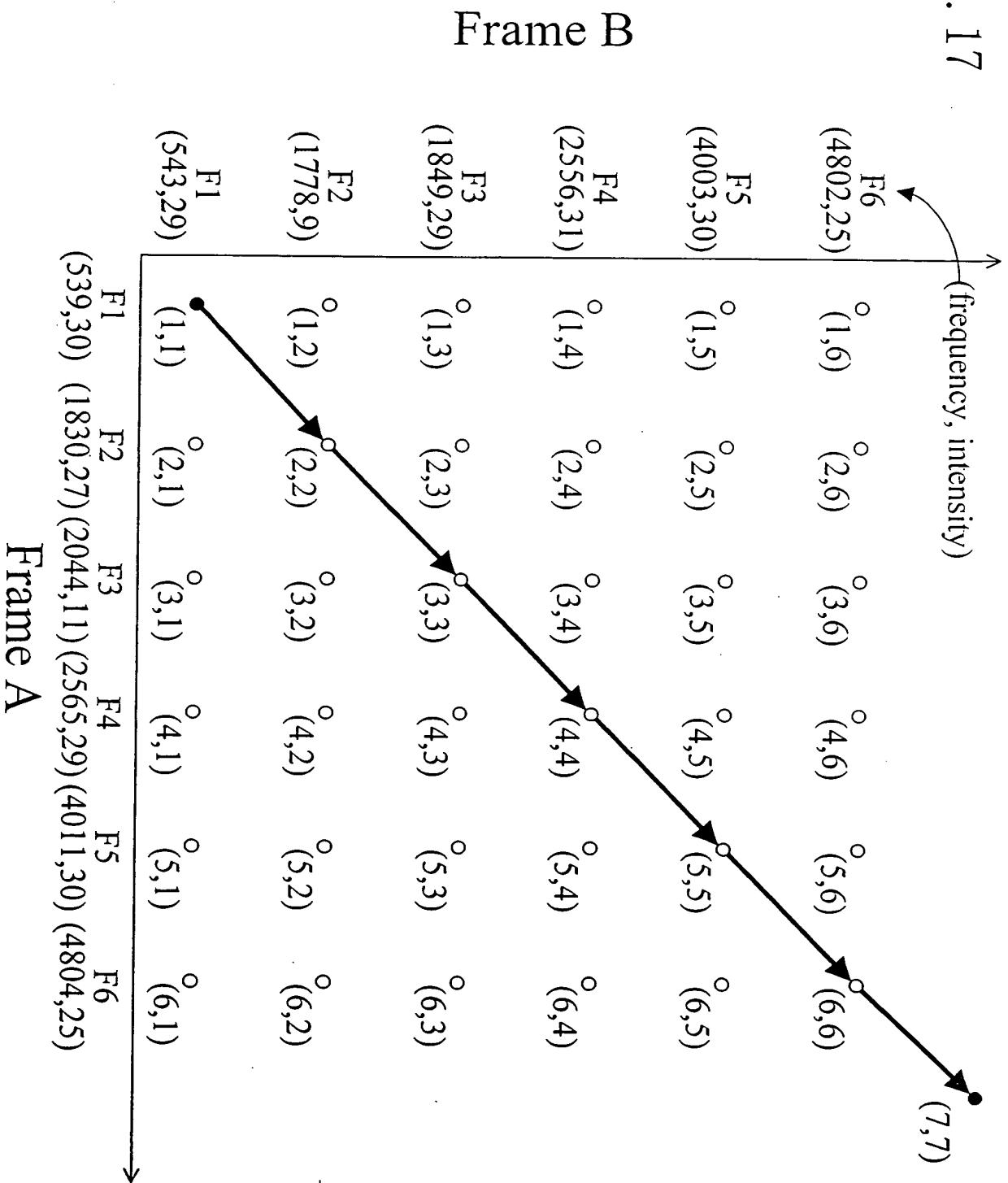
Frame B



Frame A

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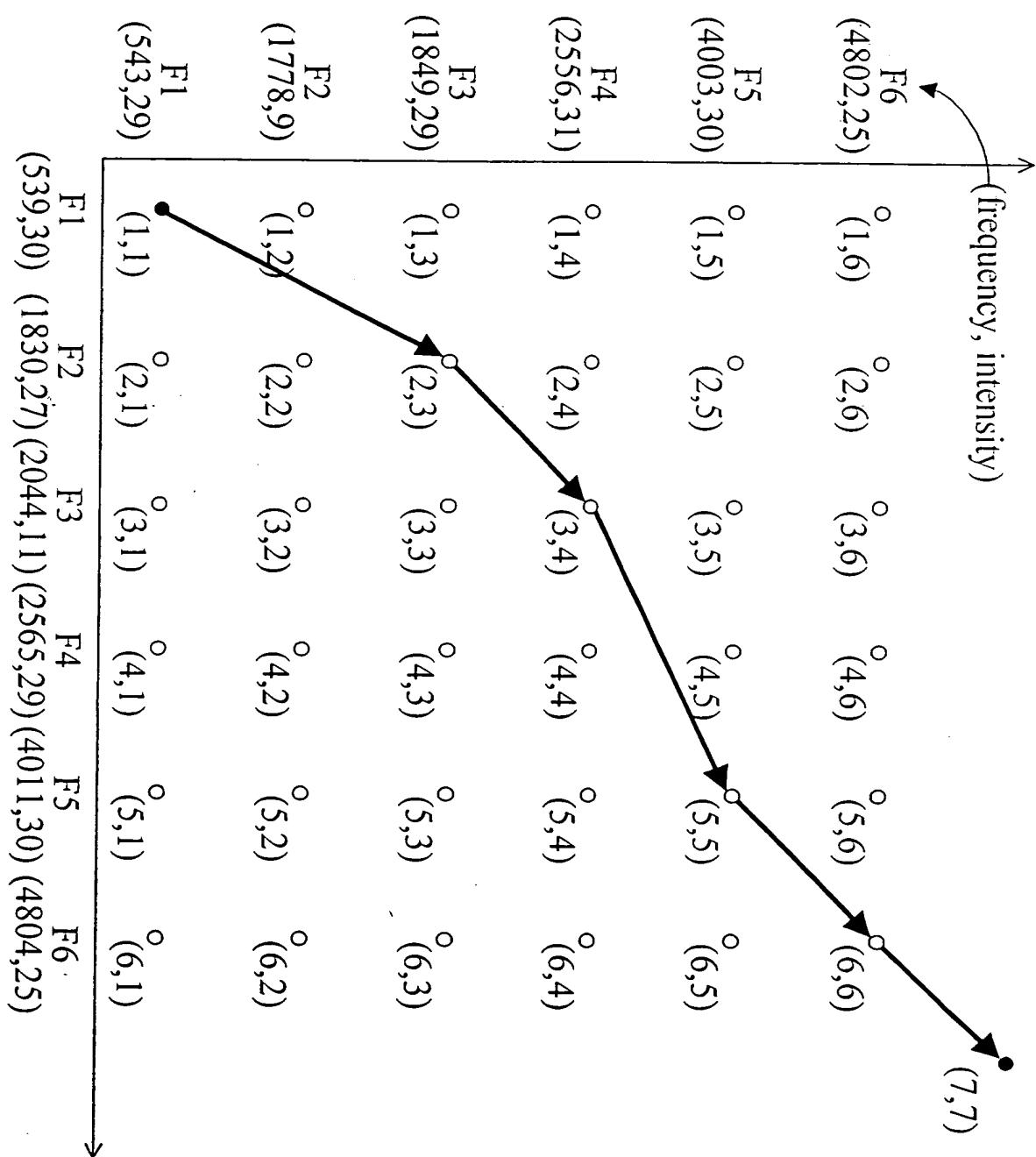
FIG. 17



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FIG. 18

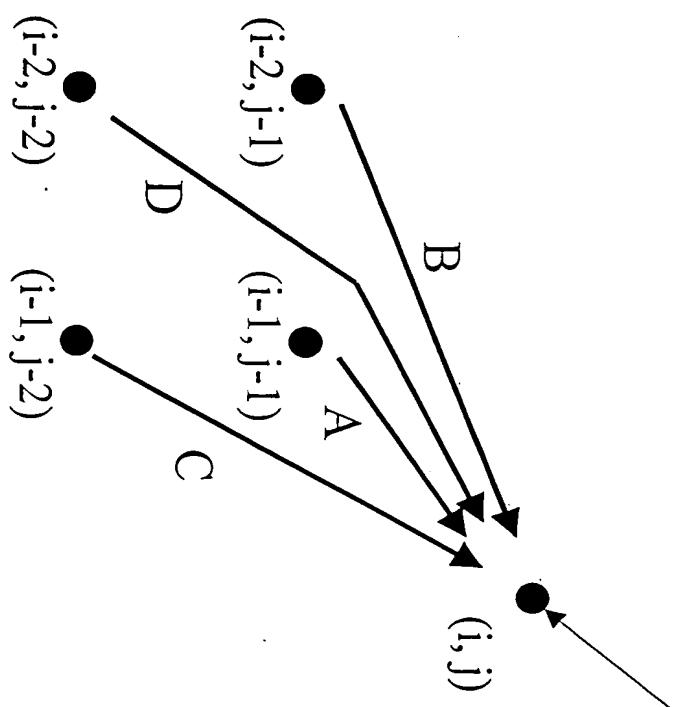
Frame B



Frame A

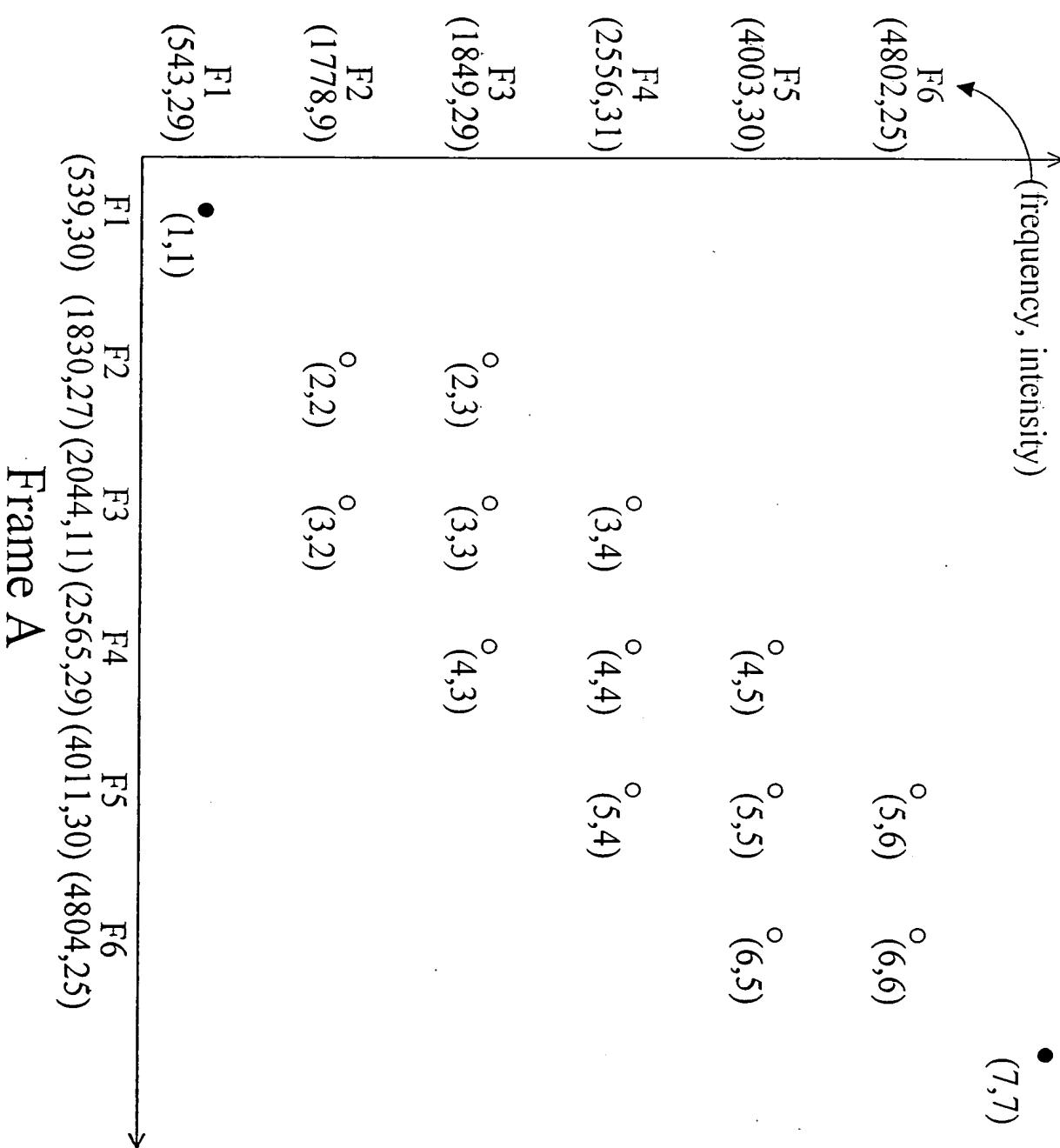
FIG. 19

Grid points that shifts has reach



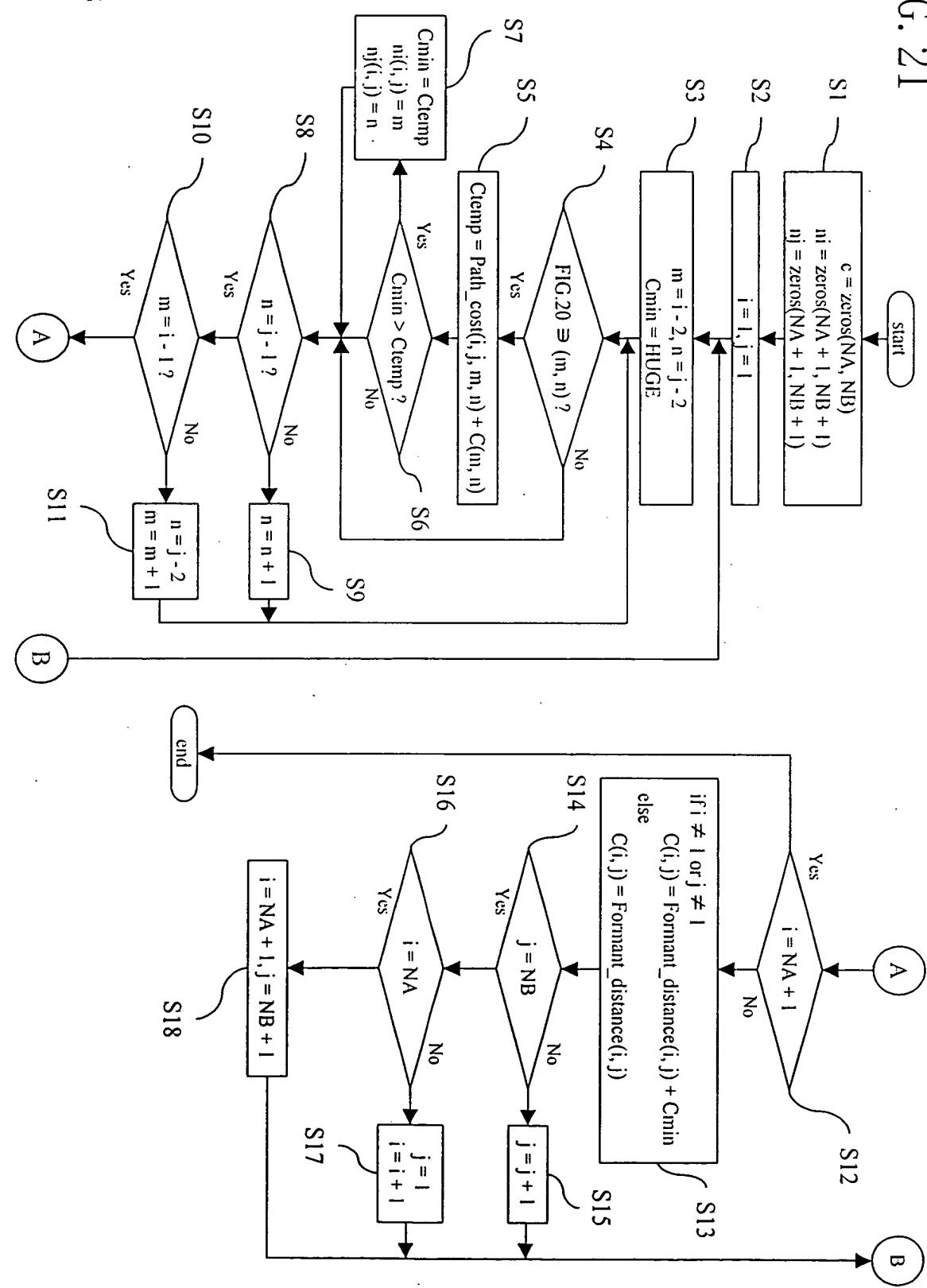
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FIG. 20



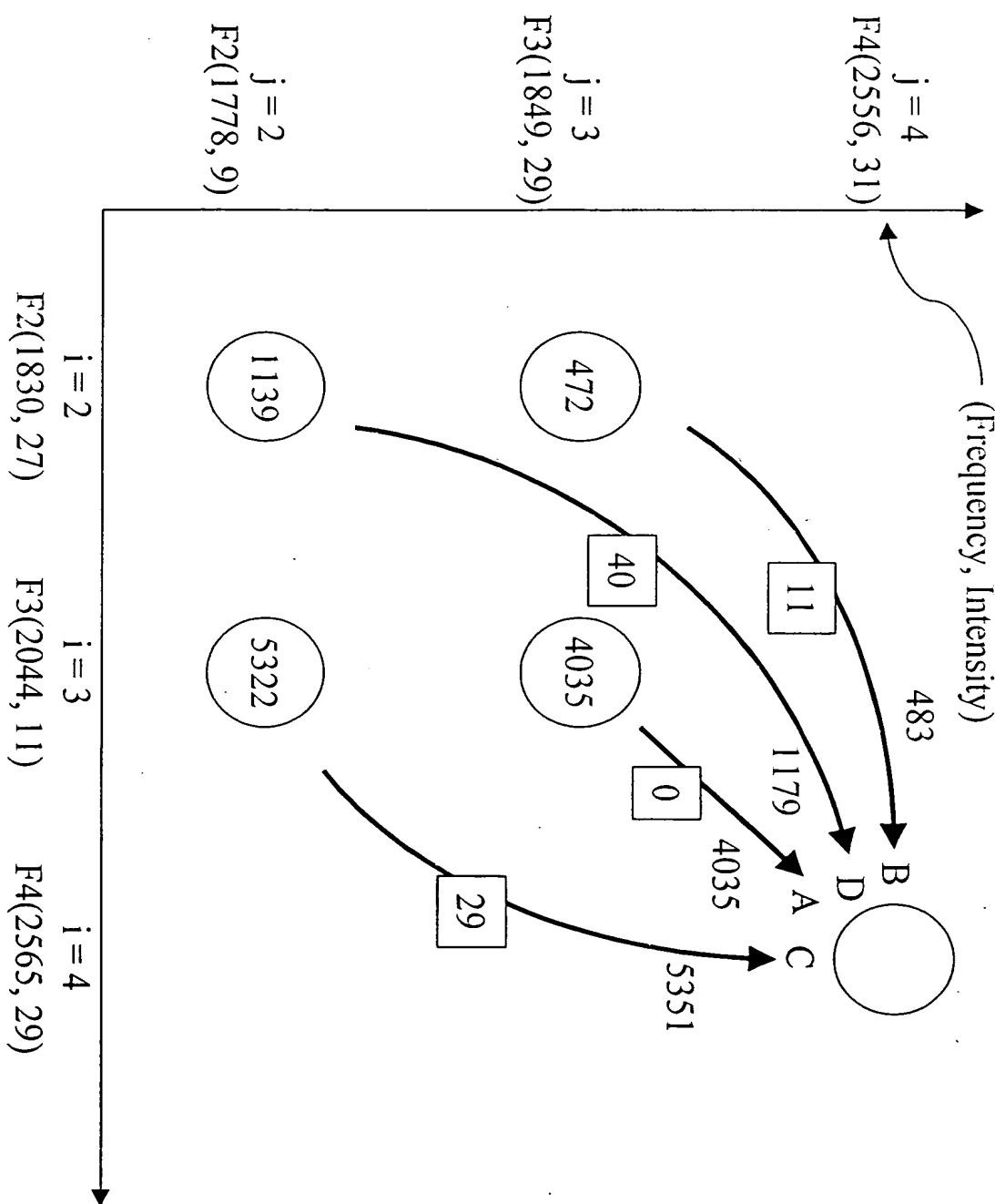
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FIG. 21



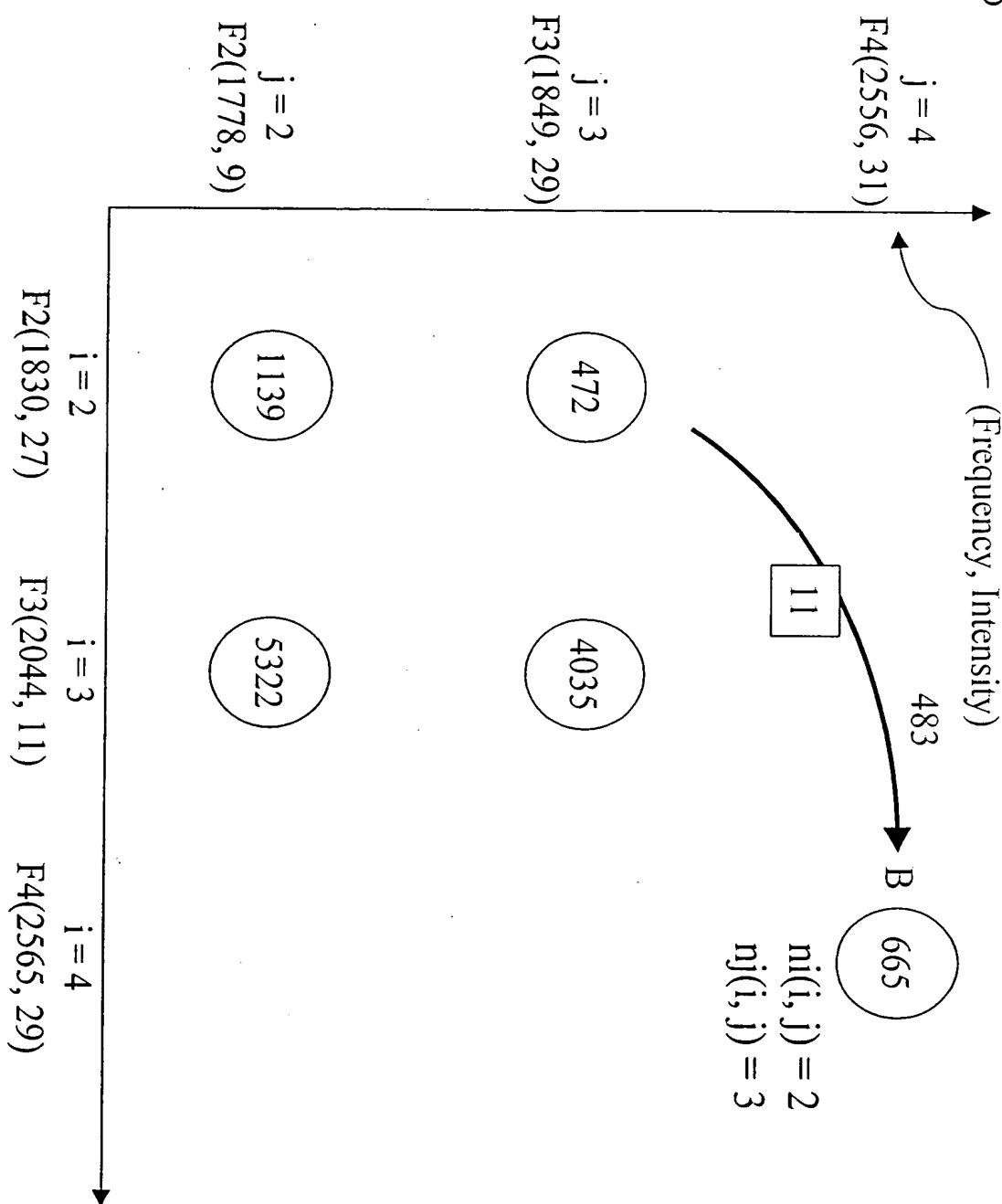
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FIG. 22



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FIG. 23

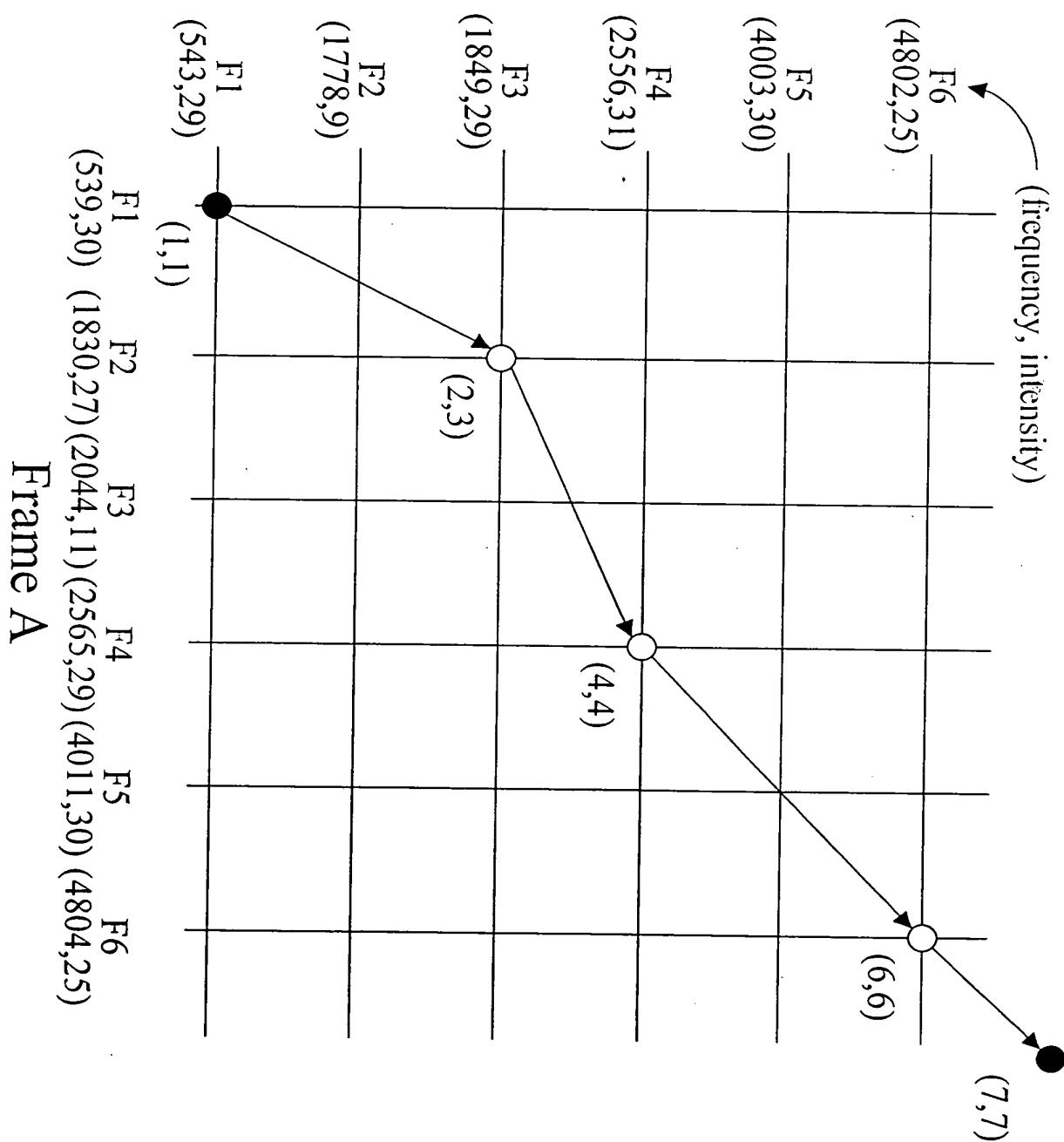


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FIG. 24

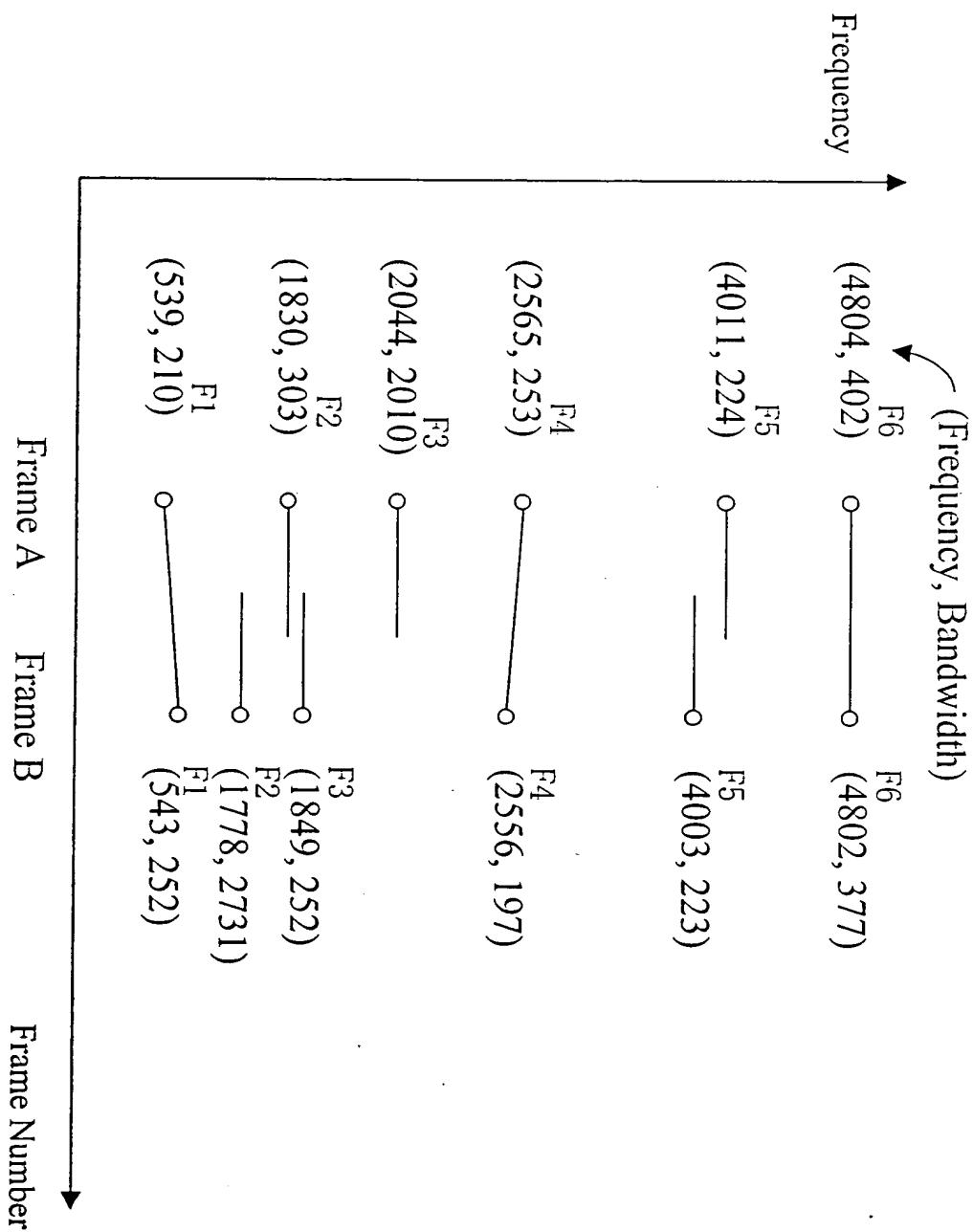
Frame B

(frequency, intensity)



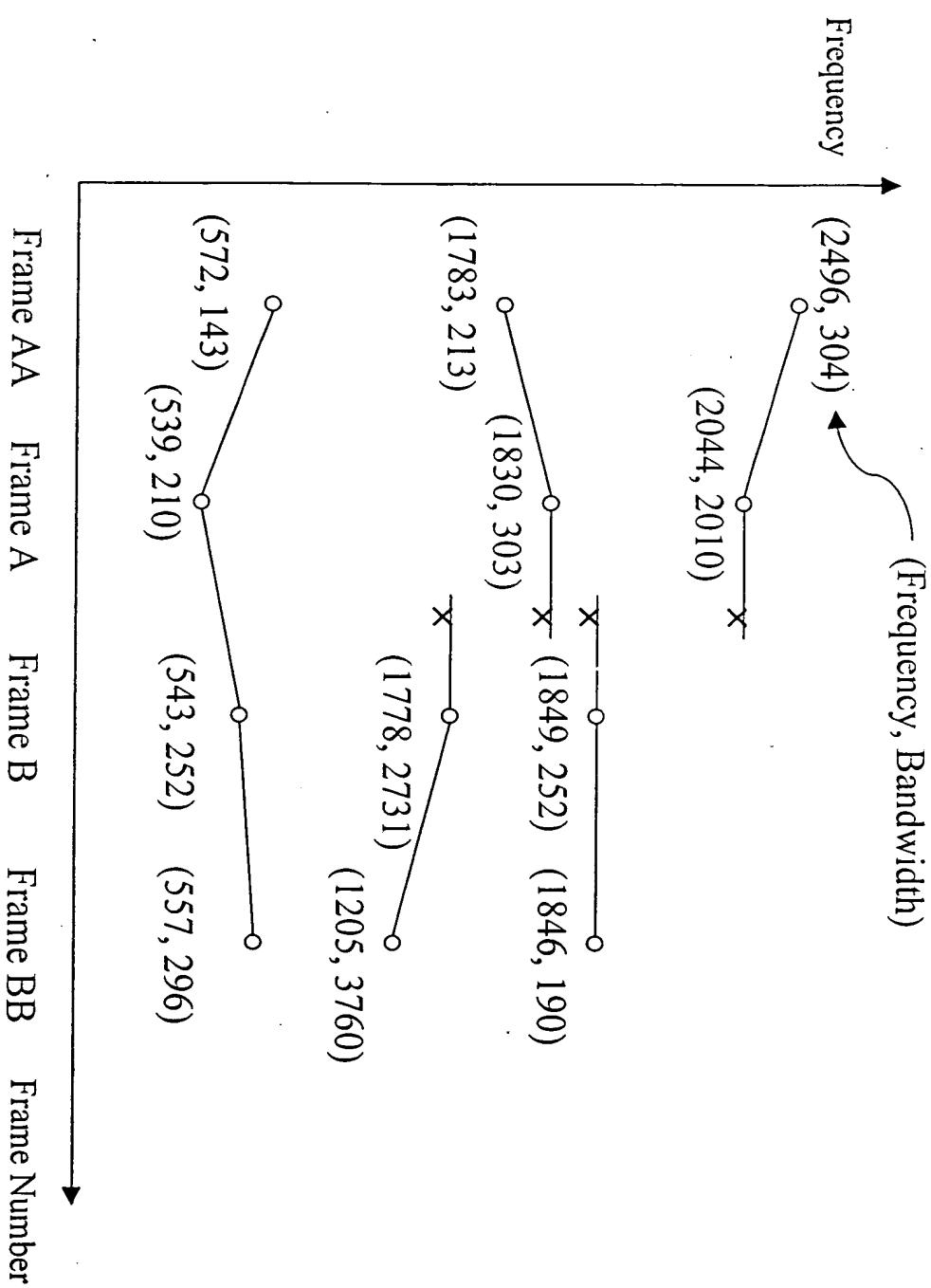
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FIG. 25



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FIG. 26



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FIG. 27

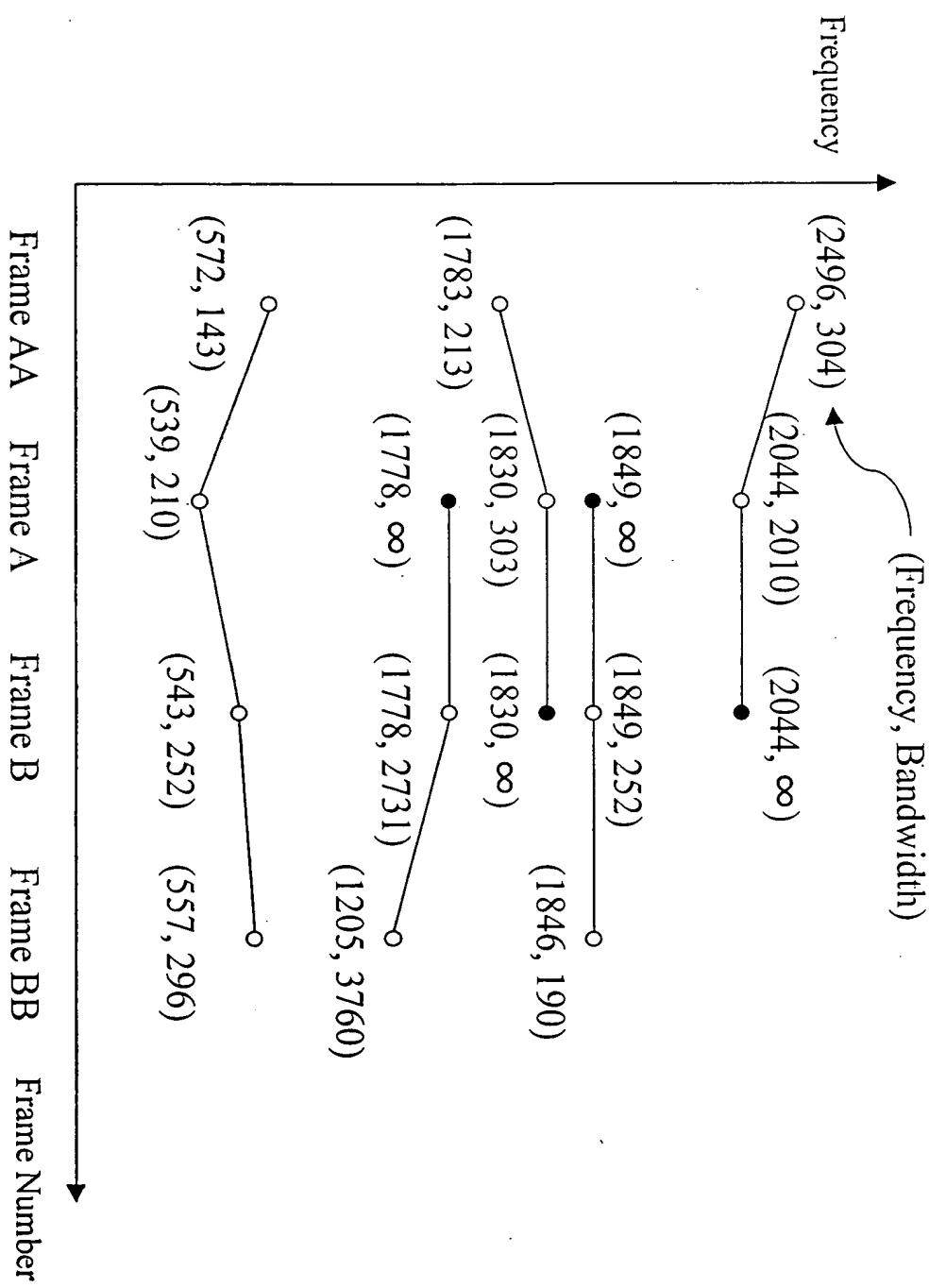
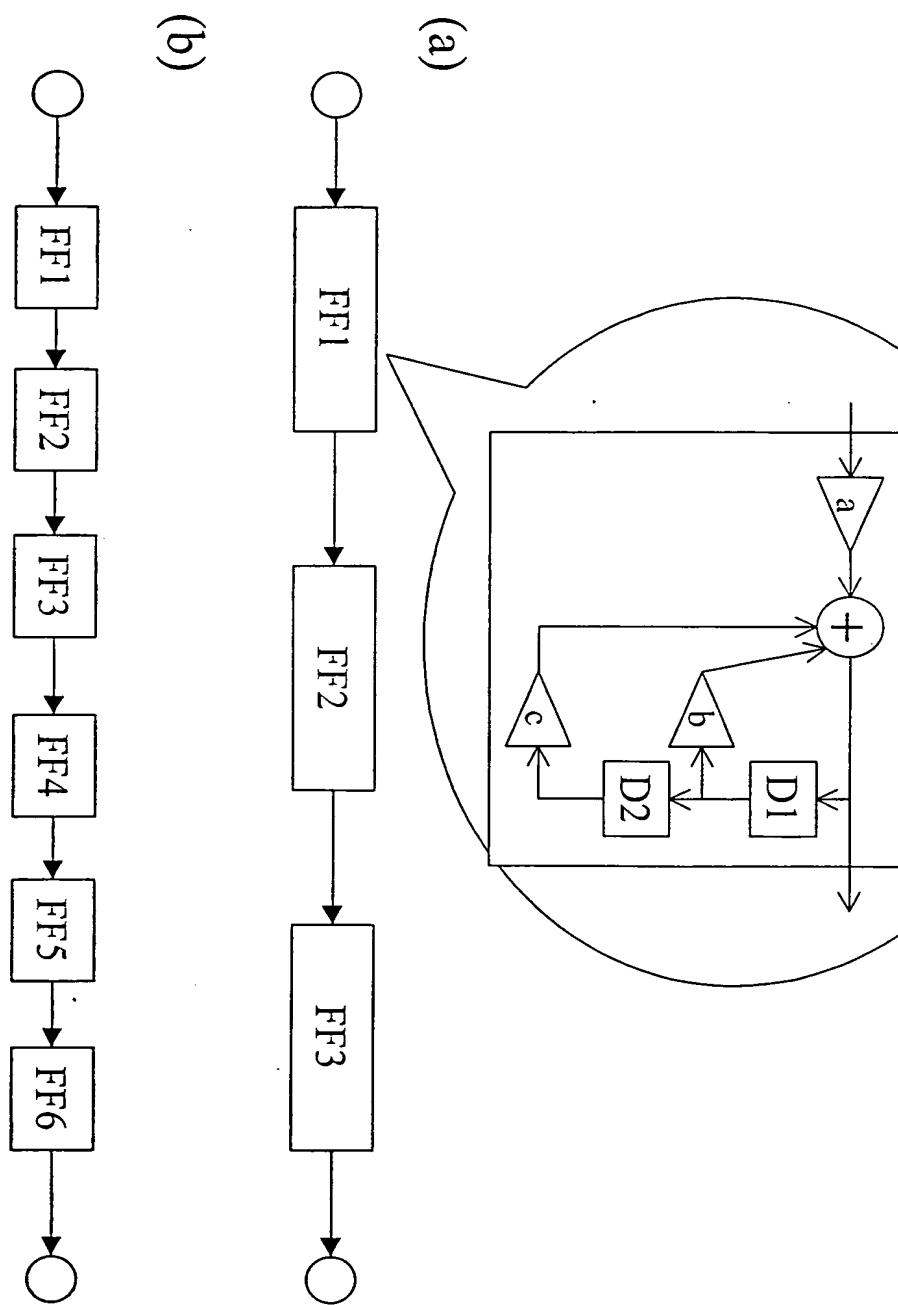


FIG. 28



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FIG. 29

	Frame AA	Frame A	Frame B	Frame BB
FF1	572,143,1	539,210,1	543,252,1	557,296,1
FF2	1783,213,2	1778, $\infty$ ,0	1778,2731,2	1205,3760,2
FF3	2496,304,3	1830,303,2	1830, $\infty$ ,3	1846,190,4
FF4	0,0,0	1849, $\infty$ ,0	1849,252,4	0,0,0
FF5	0,0,0	2044,2010,3	2044, $\infty$ ,5	0,0,0
FF6	0,0,0	0,0,0	0,0,0	0,0,0

F, B, N

F: frequency  
B: band-width  
N: previous filter number

FIG. 30

